



AUTONOMY FOR ROBOTS

AI Kits and Robotic Outdoor Navigation



Company



ARTI — Autonomous Robot Technology GmbH

Autonomy for robots

Founded in early 2019 with 6 shareholder

High-Tech Start-Up from Austria

Spin-off of the Graz University of Technology

Employees: 15

Customers across Europe

Research projects to increase the quality of our products and services

Offices in Graz, Styria (Austria)

Embedded in industrial and high-tech network

Excellent connections to universities and research institutions

Excellent transportation links and a central location within Europe

Science Park
The High Tech Incubator
Graz

- Incubated in 2017



INCEPTION PROGRAM

- Incubated since 2018



**business
incubation
centre**

Austria

ARTI is an Alumnus of
ESA Business Incubation
Centre Austria 2023

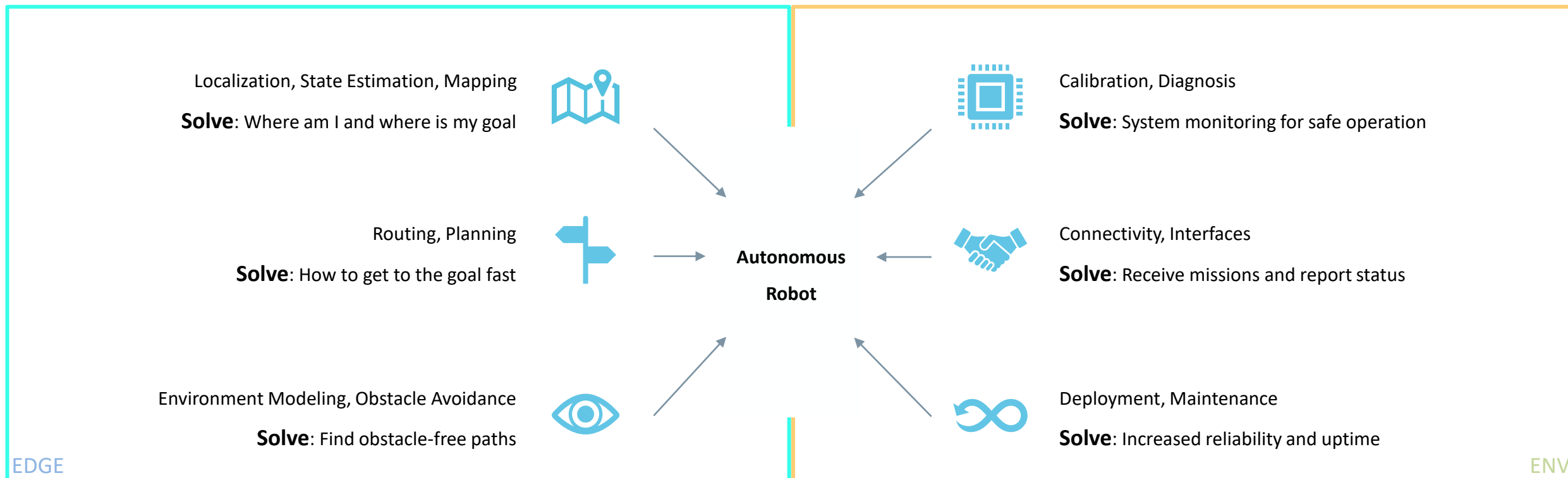
- Incubated in 2021



Problem: Automation vs Adaption

Even though different robots require similar parts, **complexity is increasing**

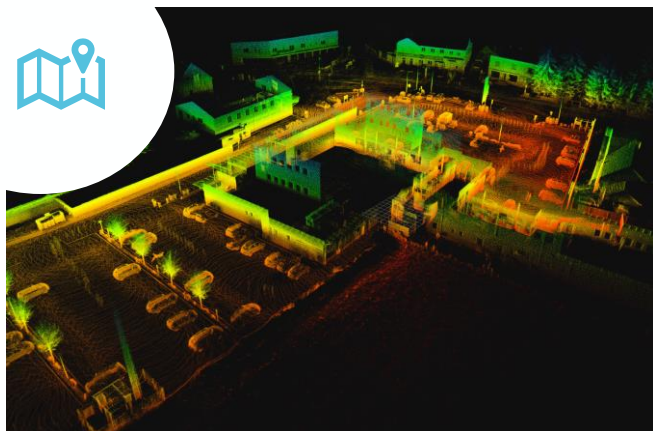
We distinguish between applications **directly on the robot** (Edge) and the **ecosystem** (Env) in which they operate



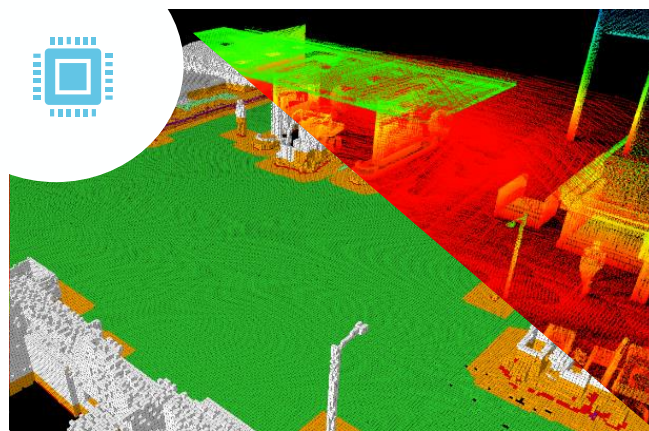
EDGE

ENV

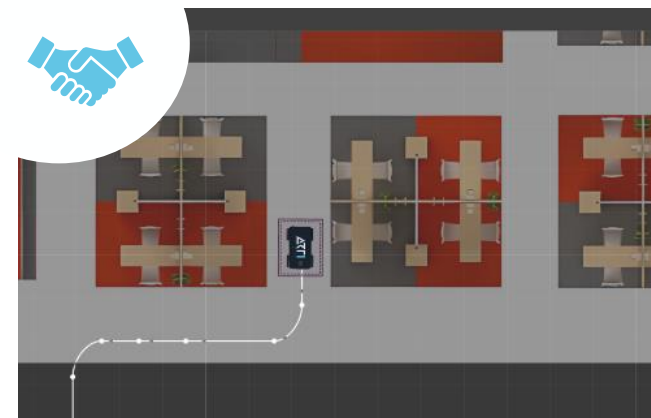
AI Kits



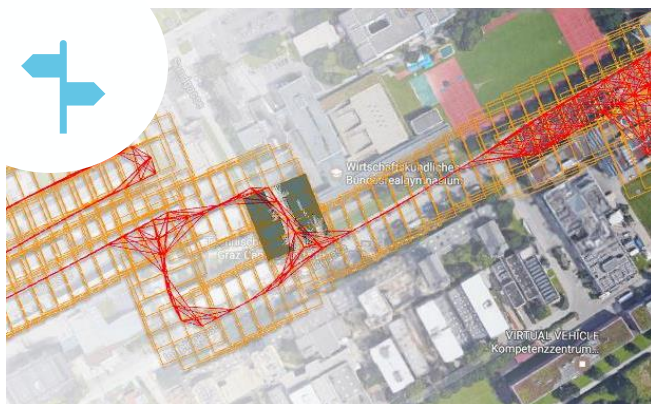
Mapping and Localization



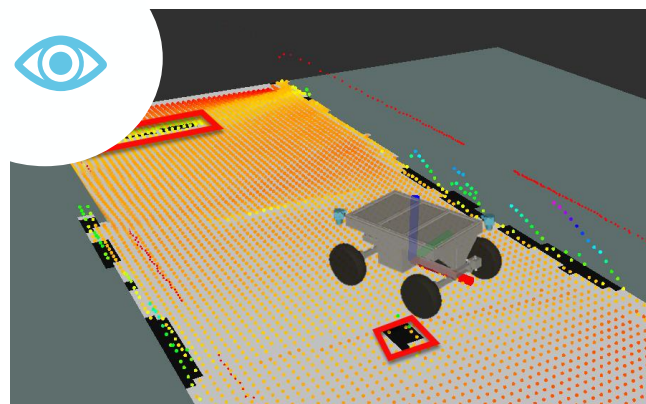
Environment Perception



Fleet Management



Routing and Planning



Obstacle Avoidance



Simulation



Explore

your idea from the very start with us.
Create design strategies and prototypes
for high-quality yet cost-efficient
solutions.



Create

a consumer ready product. Achieved
with well-engineered and extensively
tested software components.



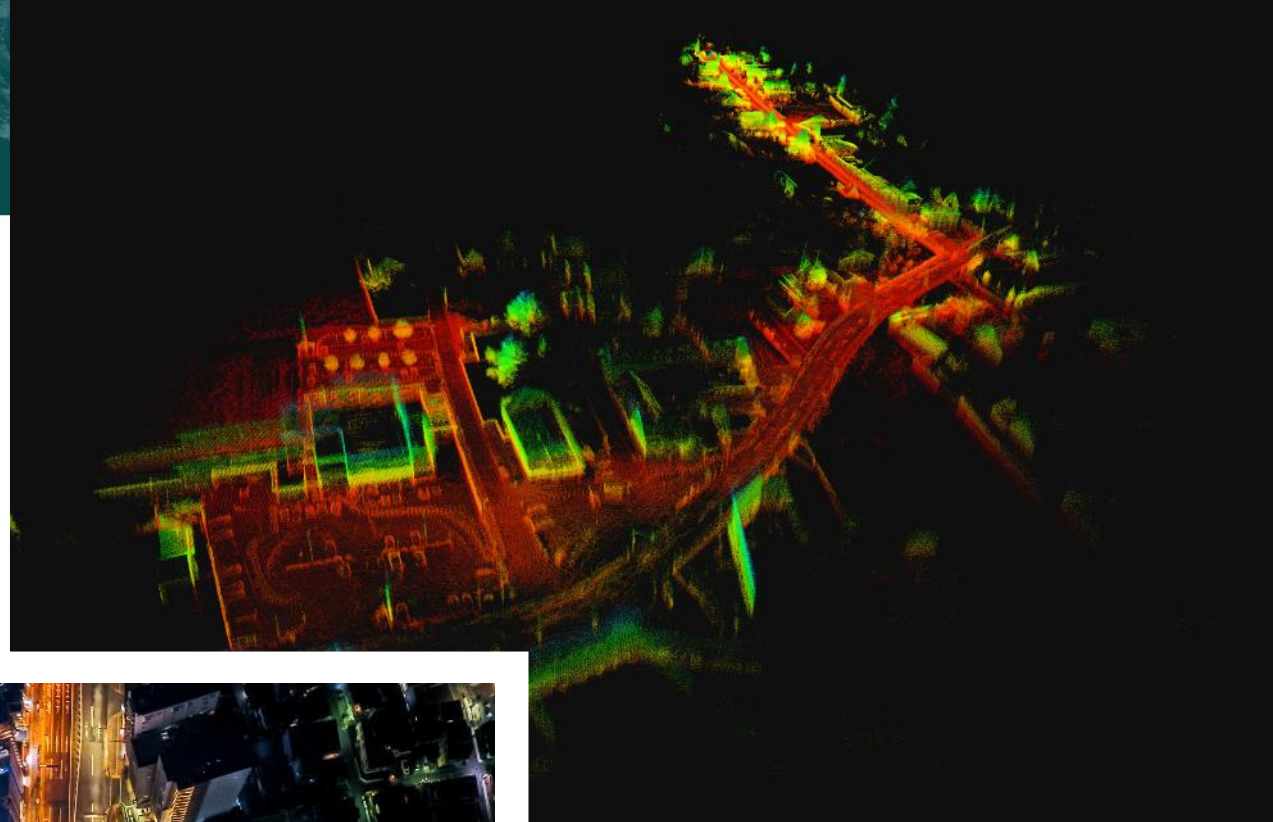
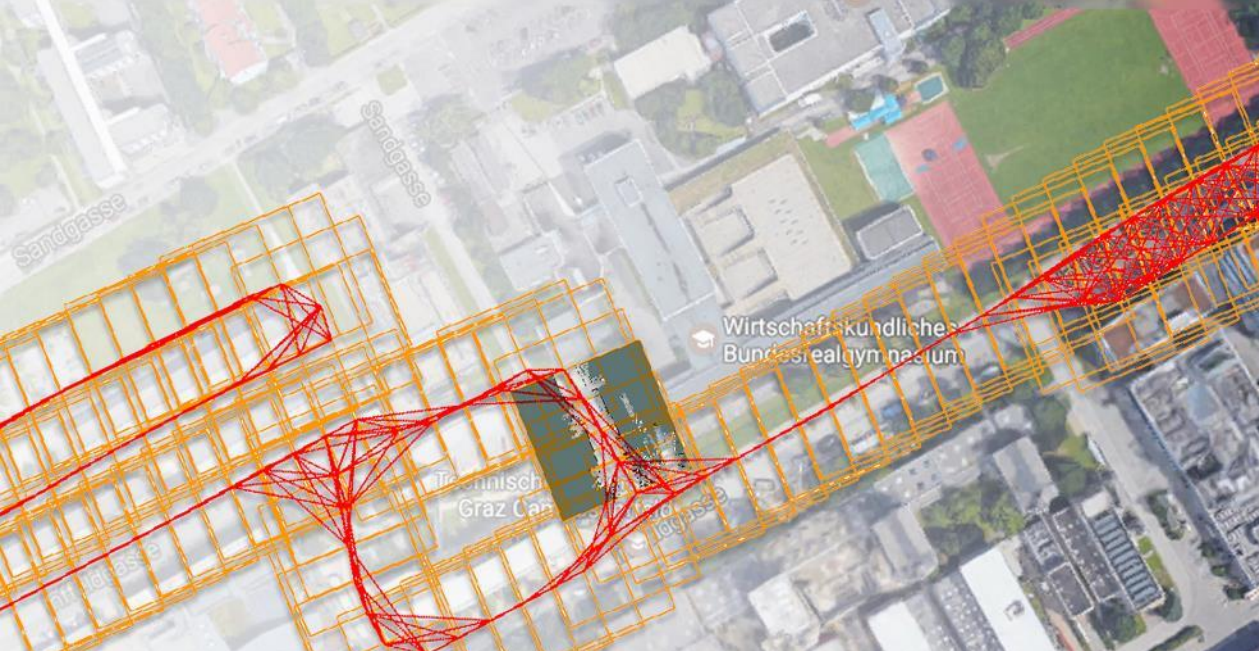
Improve

existing solutions with our expert
knowledge. Work together to exploit the
maximum potential of your product.

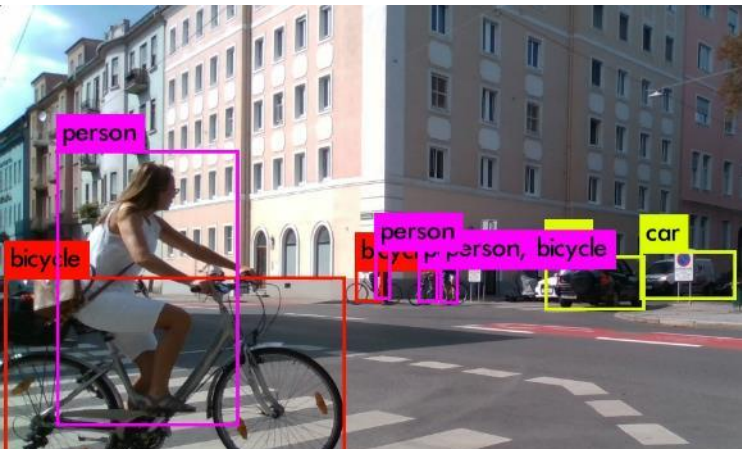


Support

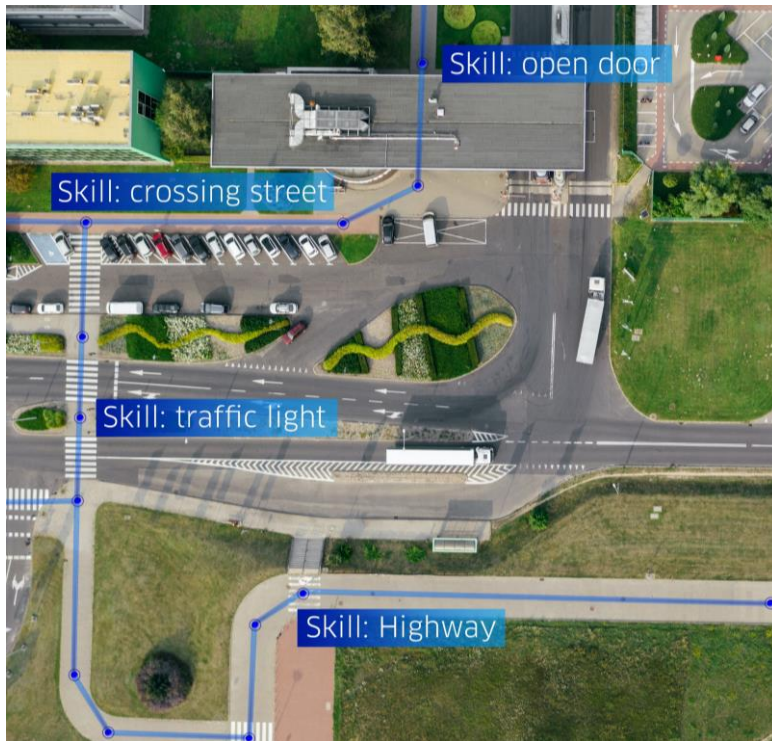
your decision with expert advice. Benefit
from an external opinion and solid
experience in autonomous products.



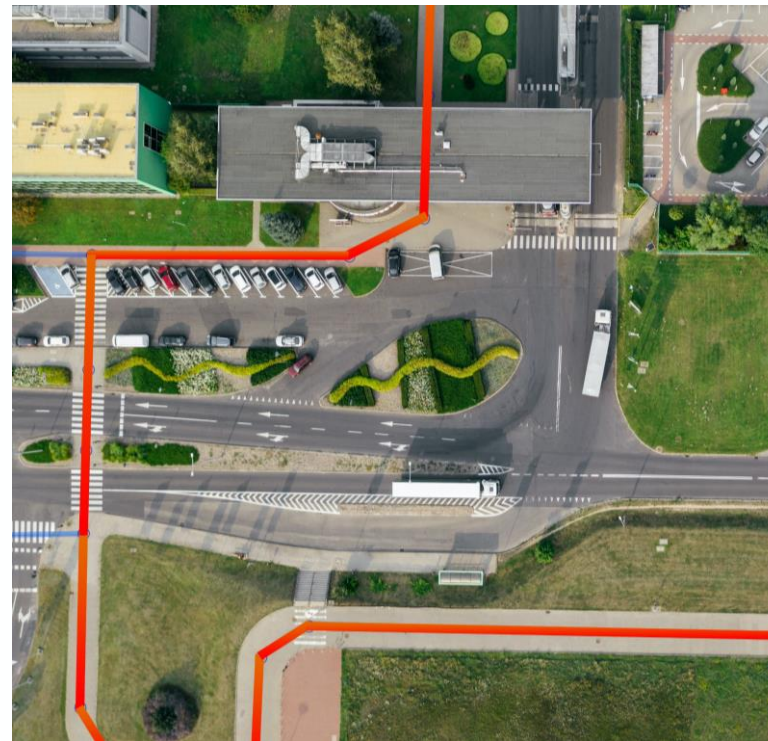
Navigation in urban areas is complex...



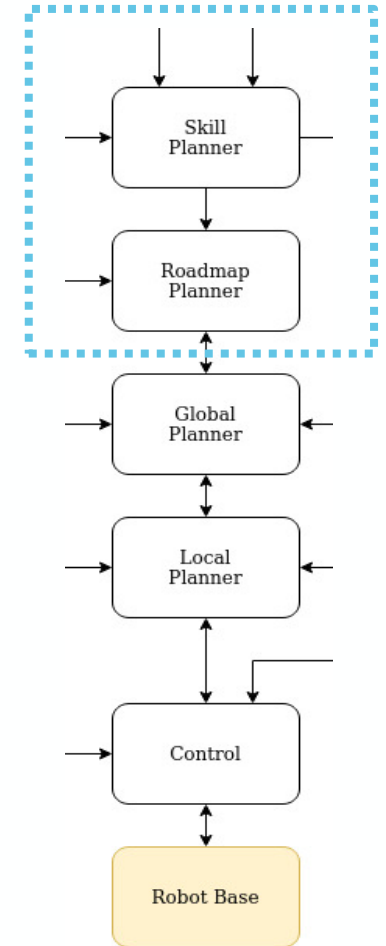
Space Technology: Skill Planning and Roadmap Planning



(1) Skill Planner



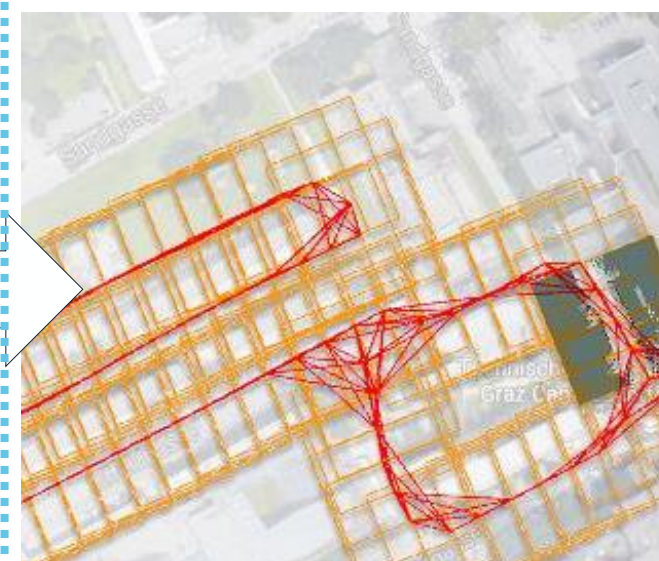
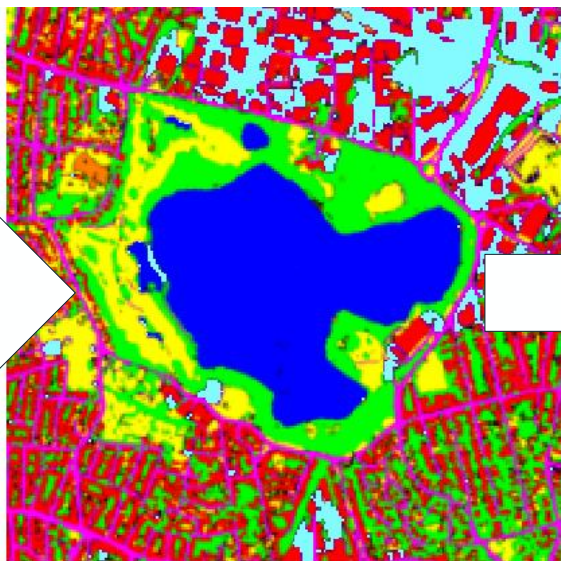
(2) Roadmap Planner



Roadmap Design



Satellite to Roadmap



Step 1 and 2

Satellite Image segmentation
depending on robot capabilities

Step 3

Generating nth routes.
Taking robot and task in account
(save vs. fast vs. reliable)

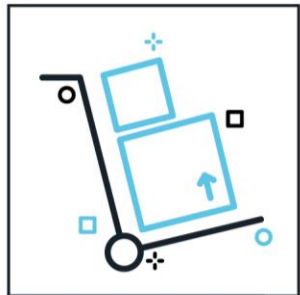
Step 4 and 5

Planning on roadmap
and avoid local obstacles
(roadmap coloured in red)

Usage Scenarios in Urban Environment

Different use cases can be tackled with the same solution.

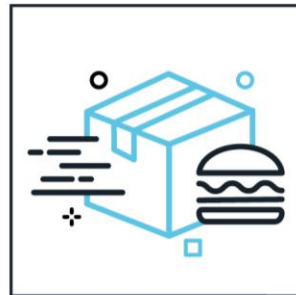
Low integration effort — high value output!



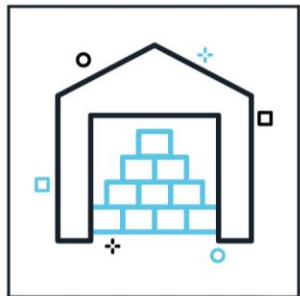
Package Delivery



Mail Delivery



Food Delivery



Warehouse logistics



Construction works



Local suppliers



Get in Touch

A simple conversation can answer a lot of questions.
So don't hesitate to get in touch!

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Partners

